Duo Lock Operating Instructions
Model 3006-2xx, 3028-2xx, 3029-2xx

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General Notes:
- Independently control 2 locks with one keypad.
- This product is designed for CEN4 safe/ATM application and or containers that require securing 2 separate vaulted areas.
- The Duo lock feature must be enabled before initializing lock.
- Details of the A-Series DUO modes can be found at the following web link: https://marketing.sargentandgreenleaf.com/a-series-duo-0

Operating Modes:
> Duo Mode 0: The Duo features are disabled.
> Duo Mode 1: 2 Doors, 1 Exclusive Entry Lock
> > Ideal Application: Locks are installed on 2 doors but only 1 door should be accessed at a time.
> Duo Mode 2: 1 Door, 2 Locks, Extended Operation
> > Ideal Application: 2 locks are used to control the opening of 1 door.
> Duo Mode 3: 2 Doors, 2 Independent Locks
> > Ideal application: 2 doors that operate independently of one another.

Enable/Disable Duo mode lock control:

Enter 15 * + Programmer PIN code # (♪♪♪♪♪) mode 0-3 # (♪♪♪) mode 0-3# (♪♪♪)

Notes Choose Lock 1 prior to selecting Duo Mode. (♪) represents the beep response from the keypad.
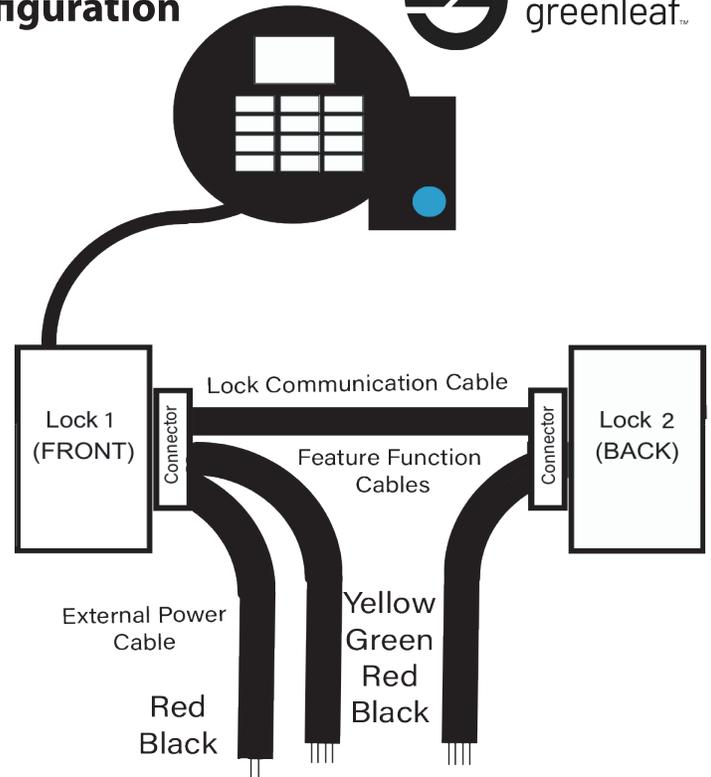
Opening (dual mode 1 and 3):

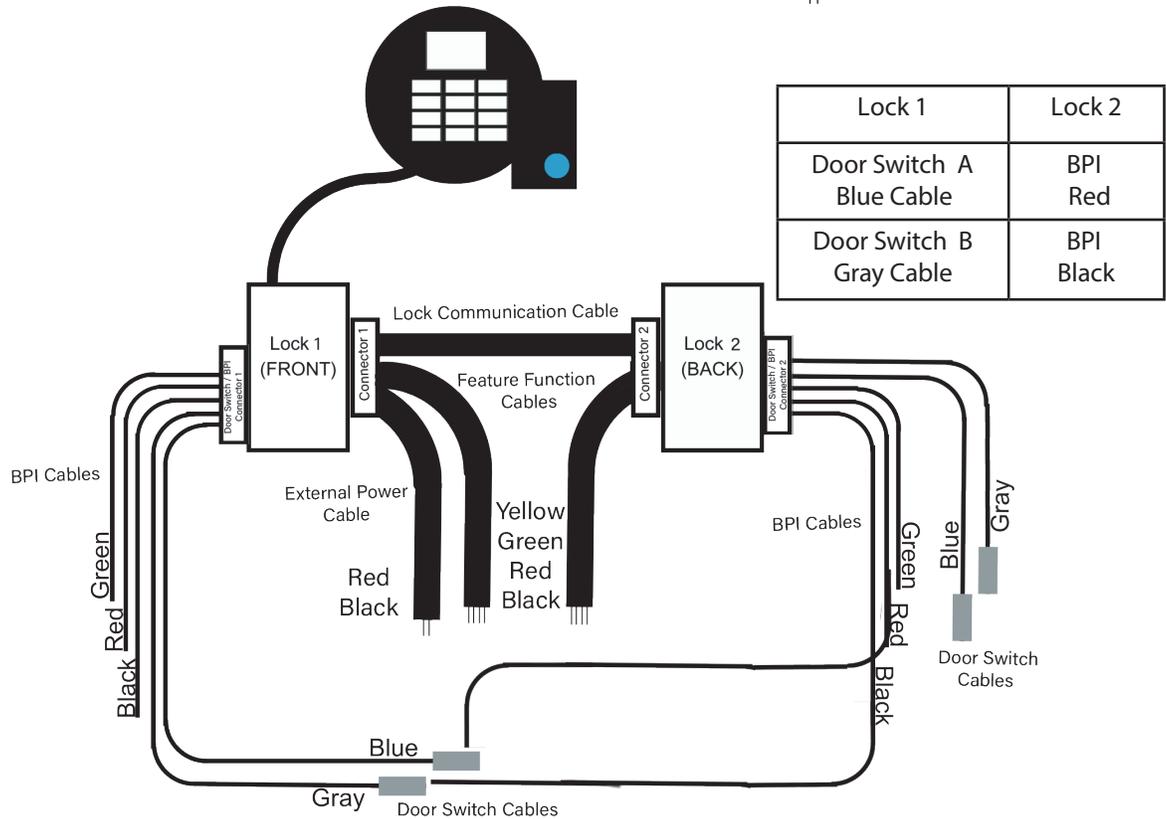| Bank Mode	Service Mode
1. Press the "＊" key. Keypad will display "Select lock 1 or 2." 2. Press "1" or "2" + "#" to select Lock. 3. Enter the 8-digit Opening Code + "#." 4. Turn Handle to the unlocked position. 5. Return Handle to locked position when complete.	1. Snap key into the Keypad extension. 2. Press the "＊" key. Keypad will display "Select lock 1 or 2." 3. Press "1" or "2" + "#" to select Lock. 4. Enter Pin Code "#" 5. Enter 8-digit operation code + "#." 6. Turn Handle to the unlocked position. 7. Return Handle to locked position when complete. Key must remain on extension until sequence has completed.

Opening (dual mode 2):

Bank Mode	Service Mode
1. Press the "＊" key. Keypad will display "Select lock 1 or 2." 2. Select lock "1" + "#" to select Lock. 3. Enter the 8-digit Opening Code. + "#." 4. Press the "＊" key. Keypad will display "Select lock 1 or 2." 5. Select lock "2" + "#" to select Lock. 6. Enter the 8-digit Opening Code. + "#." 7. Turn handle to the unlocked position. 8. Return Handle to locked position when complete.	1. Snap key into the Keypad extension. 2. Press the "＊" key. Keypad will display "Select lock 1 or 2." 3. Select lock "1" + "#" to select Lock. 4. Enter Pin Code "#" 5. Enter 8-digit operation code + "#." 6. Press the "＊" key. Keypad will display "Select lock 1 or 2." 7. Select lock "2" + "#" to select Lock 8. Enter Pin Code "#" 9. Enter 8-digit operation code + "#." 10. Turn handle to the unlocked position. 11. When complete turn handle to lock. 12. Key must remain on extension until sequence has completed.

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Duo Mode 1 or Duo Mode 3 Harness Configuration

The BPI and door switch cables are optional if Duo locks are used in mode 1 or 3. If using the features of the BPI or door switch, please review lock installation instruction for this information. Additional cable functionality outlined in the Harness Wire Guide.

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Lock 1 (FRONT)

Connector

Lock Communication Cable

Feature Function Cables

Connector

Lock 2 (BACK)

External Power Cable

Red
Black

Yellow
Green
Red
Black

Duo Mode 2 Harness Configuration

Lock 1	Lock 2
Door Switch A Blue Cable	BPI Red
Door Switch B Gray Cable	BPI Black

Door Switch / BPI Connector 1

Lock 1 (FRONT)

Connector 1

Lock Communication Cable

Feature Function Cables

Connector 2

Lock 2 (BACK)

Door Switch / BPI Connector 2

BPI Cables

External Power Cable

Black Red Green

Red
Black

Yellow
Green
Red
Black

BPI Cables

Green Red Black

Blue

Gray

Door Switch Cables

Blue

Gray   Door Switch Cables

The BPI and door switch are cables required. Please review lock installation instruction for this information. .
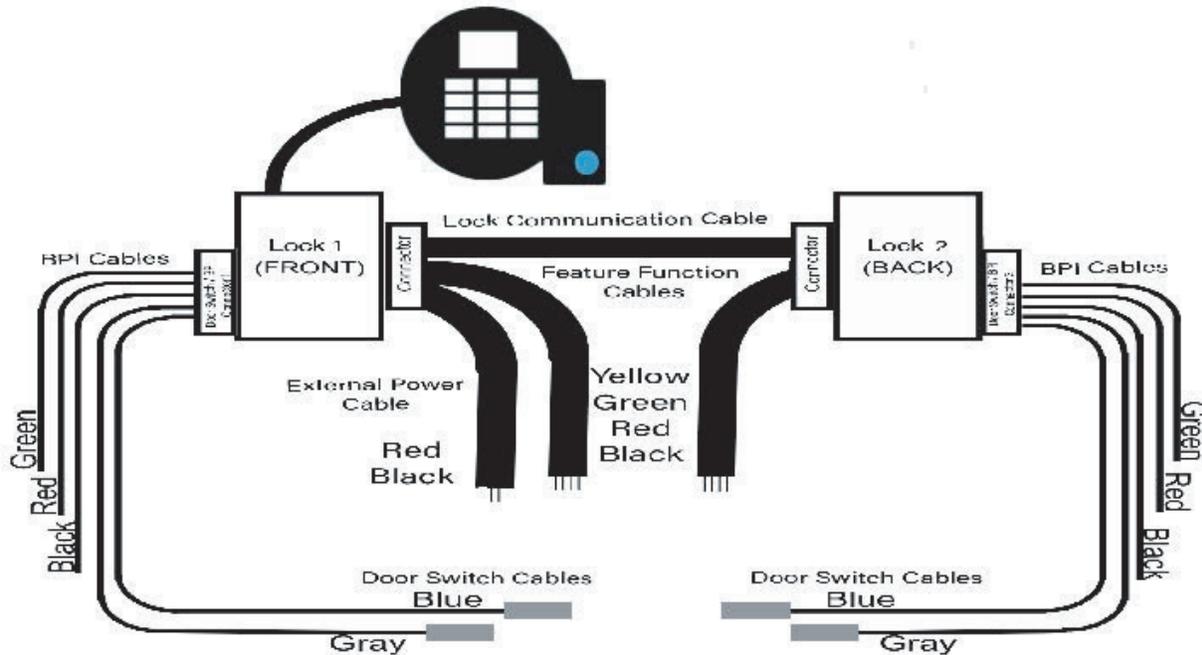1. Connect the Red BPI cable from Lock 2 to the blue door switch cable of Lock 1.
2. Connect the Black BPI cable from Lock 2 to the Gray door switch cable of Lock 2.
Please use the chart and image to connect the cables. Additional cable functionality is outlined in the Harness Wire Guide. **Note:** *3029 Series locks require door switch installation for Lock 2.*

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Harness Wire Guide

GENERAL NOTES

- The Communication Cable is for communication between lock 1 and lock 2.
- The Feature Function Cables from the lock 1 and lock 2 connectors is used for the following:
    1. Yellow & Green is used for the enabling and disabling of the lock.
    2. The red and black cables is used for sending duress signal (when enabled in the lock.)
- The audit features, duress alarm and duress output feature, the Remote Enable/Disable feature, peripheral devices and accessories, software features, one-time code functionality, USB functionality, wireless functionality, remote functionality, and other additional features are beyond the scope of the UL 2058 standard and not part of the UL Listing.
- The External Power Cables from the lock 1 connector is used for external power source.
    1. External Power Supply Requirements: Use only UL Listed / Recognized Category APHV / EPBU / QQGQ / QQGQ7 external power supply meeting the following specifications. Connectors and wires connecting power supply to lock must be UL Listed/ Recognized. Voltage: 9-12 VDC Max Current: 2A
    2. The external power supply and associated wiring must remain inside the secured container to maintain product certifications.

A-Series Duo Lock Harness		
Feature Function Cables		
Cable Feature	Cable Color	Specification
Enable/Disable	Yellow	Common
	Green	Input 0-5 Volt
Duress output	Red	Open Drain output (200 milliamp continuous current)
Duress Pull up resistor	Black	10 kOHM pullup to sys Power
External Power Cable		
Positive +	Red	Power (+) 9- 12 volts DC/ 2 amps
Negative -	Black	Power (-)

Door switch & BPI cable	
Cable Feature	Cable Color
Door Switch A	Blue
Door Switch B	Grey
Normally Open	Green
Normally Closed	Red
Common	Black

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Duress Alarm Feature

General Notes:
The audit features, duress alarm and duress output feature, the Remote Enable/Disable feature, peripheral devices and accessories, software features, one-time code functionality, USB functionality, wireless functionality, remote functionality, and other additional features are beyond the scope of the UL 2058 standard and not part of the UL Listing.

Enable The Duress Alarm Feature 3
8* + Programmer PIN Code# + Option # + Option #
Enabling the Duress alarm will allow the user to send a signal to the alarm system. ex: 38* 00123456# 2# 2#

Enable for Duress Output (Duo Lock Harness Feature Function Cable Black and Red wires)
37* + Programmer PIN Code# + Output # + Function # + Function #

Enabling the Duress Output Function 1 does not require a special module to send the signal. ex: 37* 00123456# 1# 1# 1#

Enable The Remote Enable/Disable Feature (Duo Lock Harness Feature Function Cable Black and Red wires)
36* Programmer PIN Code# Option # Function # Function #

Enable the Remote Enable Function 3 when the loop is closed. ex: 36* 00123456# 1# 3# 3#
Enable the Remote Disable Function 4 when the loop is closed. ex: 36* 00123456# 1# 4# 4#

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